

March 02, 2018



U.S. Department
of Transportation

East Building, PHH-30
1200 New Jersey Avenue S.E.
Washington, D.C. 20590

**Pipeline and Hazardous
Materials Safety Administration**

DOT-SP 20421
(FIRST REVISION)

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: (See individual authorization letter)
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the transportation in commerce of plastic receptacles charged with liquefied gases, or a mixture of a liquefied and compressed gas, and which are exempted from marking, labeling, and shipping papers when shipped by motor vehicle or rail freight. This special permit provides no relief from the Hazardous Materials Regulations (HMR) or the International Civil Aviation Organization's Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO TI) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
 - b. The safety analyses performed in the development of this special permit only considered the hazards and risks associated with the transportation in commerce.
 - c. Unless otherwise stated herein, this special permit consists of the special permit authorization letter issued to the grantee together with this document.
 - d. This special permit serves as an exemption under Part 1; 1.1.3 of the ICAO TI and as a "Competent Authority Approval" as defined under 49 CFR § 107.1.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § § 172.200 in that hazardous materials shipping papers would not be required, unless transported by aircraft, 172.300 in that marking would not be required, unless transported by aircraft except

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as prescribed in the special permit, 172.400 in that labeling would not be required, unless transported by aircraft, 172.500 in that placarding would not be required, 173.304a(a) and ICAO TI Packing Instruction 200 in that a non-DOT specification receptacle or DOT Specification 2S container is not an authorized packaging for a pure gas.

5. BASIS: This special permit is based on the application of The Proctor and Gamble Company dated February 23, 2017 submitted in accordance with § 107.105 and the public proceeding thereon.
6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Liquefied gas, n.o.s.*	2.2	UN3163	N/A

*Only HFO-1234ze (1,3,3,3 Tetrafluoropro-1-pene) liquefied gas, and mixtures with nitrogen, are authorized.

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packagings prescribed are non-DOT specification inner non-refillable plastic receptacles or DOT 2S specification inner non-refillable plastic receptacles that are in conformance with the following:

- (1) Each receptacle must have a capacity not exceeding 1 L (61.0 cubic inches)
- (2) The gauge pressure in each receptacle must not exceed 345 kPa (50 psig) at 21 °C (70 °F) and 1000 kPa (145 psig) at 55 °C (131 °F).
- (3) When the pressure in the receptacle at 55°C (131°F) is 966 kPa (140 psig) or more, the receptacle must meet all requirements for a DOT Specification 2S plastic inner receptacle, including markings.
- (4) The Division 2.2 liquefied gas, the Division 2.2 compressed gas, and mixtures of these gases must not be

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toxic, flammable, or oxidizing, or exhibit any subsidiary risks.

(5) The burst pressure of each receptacle must not be less than 16.6 bar (240 psig).

(6) Receptacles must be:

i. Packaged in strong outer packagings with a gross mass not exceeding 30 kg (66 lbs.), which, when offered for transport by aircraft, must also meet the requirements of § 173.27(f) (2) (v) and (vi) of the HMR; or,

ii. Shrink-wrapped on pallets with a slip-sheet placed between each layer of receptacles. This configuration is not authorized for air transport.

(7) The liquid phase of the gas in the container must not exceed 5% of the container volume at any temperature up to and including 130 °F.

b. TESTING - Each receptacle must be successfully tested in accordance with either 173.306(a) (5) (v) or 173.306(a) (5) (vi).

c. MARKING - Individual receptacles are not subject to the marking requirements of § 172.301(c), however, each package, including shrink-wrapped pallets if used, must be marked "DOT-SP 20241" in letters and numerals at least 12 mm (0.5 in.) high.

d. OPERATIONAL CONTROLS -

(1) The packaging in 7.a.(6) (ii) is only authorized for transport by private or contract motor carrier or by rail.

(2) Shipments are only authorized to or from a facility where the receptacle is manufactured and pre-gassed, a warehouse, or an aerosol filling facility; or to a disposal facility from an offeror. Intermediate loading or unloading is not authorized. The final destination must be a facility where the container is filled with a solid, liquid, paste, or powder to be expelled from the container or a disposal facility.

March 02, 20188. SPECIAL PROVISIONS:

a. A person who is not a holder of this special permit who receives an inner packaging covered by this special permit may reoffer it for transportation provided no modification or change is made to the inner packaging or its contents and it is reoffered for transportation in conformance with this special permit and the HMR.

b. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, passenger aircraft, and cargo-only aircraft.10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each aircraft or motor vehicle used to transport packages covered by this special permit. The shipper must furnish a copy of this special permit to the air carrier before or at the time the shipment is tendered.11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

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Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) – “The Hazardous Materials Safety and Security Reauthorization Act of 2005” (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term “exemption” to “special permit” and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 - Immediate notice of certain hazardous materials incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for William Schoonover
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, U.S. Department of Transportation, East Building PHH-30, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm. Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: BM/TG